

Page 1 of 1

All amounts are calculated in domestic currency.

Book Amt	
\$0.00	
\$0.00	
\$0.00	
25.00000	
0.00000	
0.00000	
\$0.00	
0.00000	



Castle Metals®

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 1 of 2


Shipment No:3199812

Ship From: A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
Date Shipped 15-FEB-17	F.O.B. ORIGIN	Freight Terms Prepaid	Carrier MANITOU LIN	BOL No 3199812-2

Shipment Details	Final Destination Branch - TOR
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Order No 4649440	Line No 1	Item No 752132.MO	Description 4.0000.PL.7075.T7351.ALUMINUM.USI.48.5000.144.5000 CUT LENGTH TO 48.5 IN (GRAIN TO RUN ALONG 4") X 4 IN (+ .1250/- .0000 IN (GRAIN TO RUN ALONG 4")) - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12
Purchase Order No 35181	Part Number	Ordered Qty 1.00 PCS	Invoice Qty 1.00 PCS

Details	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS		
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Delivery No. 120848026	Mill KAISER ALUMINUM	Heat Number 	Mech Id 1	PCS 1	Width (IN)	Length (IN)	Shipped Qty(LBS) 80.4138
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These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

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Page 2 of 2

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A. M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

Date:

Name:

SHIPPED FEB 15 2017

M. Randin



SG 17-02-16

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.
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SHIP TO: A M CASTLE & CO 3050 SOUTH HYDRAULIC WICHITA, KS 67216
SOLD TO: AM CASTLE & CO- SOLD TO 1420 KENSINGTON RD SUITE 220 OAK BROOK, IL 60523

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4432642

CUSTOMER PO NUMBER: 388529-1	WORK PACKAGE:	CUSTOMER PART NUMBER: 752132	SHIP RUN/LOAD: 103681/5	GOV'T CONTRACT NUMBER:
KAISER ORDER NO: 1216968-1	SHIP DATE: 11-SEP-2016	ALLOY: 7075	CLAD: BARE	TEMPER: T7351
PRODUCT DESCRIPTION: KaiserSelect Plate				
WEIGHT SHIPPED: 5694 LB	QUANTITY: 2 PCS EST.	TRUCK B/L #: 2062385	GAUGE: 4.0000 IN (101.6000 MM)	DIAMETER/WIDTH: 48.500 IN (1231.9 MM)
			LENGTH: 144.500 IN (3670.3 MM)	

MHU 2013125: LOT 186802B5: 1 pieces;
MHU 2023548: LOT 182992B8: 1 pieces;

Certified Specifications

AMS 4078/RevJ
ASTM B 209/Rev14
BSS 7055/RevB
DPS 4.713/RevAK
MMS 159/RevT

AMS-QQ-A-250/12/RevA
ASTM B 594/Rev13
CMMP 025/RevV
GAMPS 9101/RevB/AmdSCN1
PS 21211/RevP

AMS-STD-2154/RevA
BAC 5439/RevJ
CSTI 006/RevE
GSS16100/RevG/Amd1

Test Code: 4297

Lot: 182992B8 Cast 246

Drop 06

Test Results

Ingot 5

DAS

14

9-89

17/02/24

Melted In USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T7351	LT / 2 (Min:Max)	63.8 : 63.8 (440 : 440)	51.1 : 51.2 (352 : 353)	10.5 : 10.9

(ASTM E1004)

(EN 2004-1)

Conductivity %IACS :	41.6 Min	41.8 Max
(MS/M) :	24.1 Min	24.2 Max

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.08	0.19	1.5	0.03	2.4	0.20	5.8	0.03	0.01	0.01	TOT 0.06



KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4432642

Lot: 186802B5

Cast 225

Drop 14

Ingot 5

Melted in USA

(ASTM E8/B557)
(EN 2002-1)

Tensile:

Temper
T7351

Dir / # Tests
LT / 2 (Min:Max)

Ultimate KSI (MPA)
64.4 : 64.8
(444 : 447)

Yield KSI (MPA)
51.3 : 51.7
(354 : 356)

Elongation %
11.3 : 11.6

(ASTM E1004)
(EN 2004-1)

Conductivity %IACS : 41.6 Min
(MS/M) : 24.1 Min

42.0 Max
24.4 Max

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.06	0.15	1.4	0.02	2.6	0.20	5.8	0.03	0.01	0.01	TOT 0.05

ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
7075												
MIN(wt%)	0.00	0.00	1.2	0.00	2.1	0.18	5.1	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.05	TOT	0.15

Aluminum Remainder

ORDER COMMENTS

AMC CA:15413E R 6

TEST NOTES

Metal represented by this test report was 100% Type I
(Immersion) ultrasonically tested from one side with 3mm
dead zones top and bottom and meets the Class A and Class B
requirements of all specifications referenced on this test
report. No surface marking of sonic indications is
performed.

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:
* has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated hereon.
* All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
* was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
* has been thermally processed in compliance with AMS 2772, where applicable.
* is mercury free, within the limits of detection of ASTM E1215 (<1 ppm).
* is in compliance with RoHS 2, European Union Directive 2011/65/EU.
* is in compliance with European Chemical Agency, ECHA, REACH regulations, IECI No 1907/2006, and Kaiser regularly monitors these regulations for updates.
* is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
* is free of weld repair.
* meets the reporting requirements of EN10204, Type 3.1.
Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced or used in full, without the written approval of the Kaiser Aluminum Laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under the law.

James Hemenway

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER



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A. M. Castle & Co.

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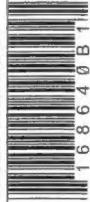
Page 1 of 2

Shipment No:3199812

Ship From: A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
Date Shipped 15-FEB-17	F.O.B. ORIGIN	Freight Terms Prepaid	Carrier MANITOULIN	BOL No 3199812-2

Shipment Details

Final Destination Branch - TOR

Order No 4649440	Line No 2	Item No 752241.MO	Description 2.5000.PL.7075.T7351.ALUMINUM.USI.48.5000.144.5000 CUT 2SIDED TO 8.25 IN (+ .0310/- .0000 IN (GRAIN TO RUN ALONG 5")) X 5 IN (+ .0310/- .0000 IN (GRAIN TO RUN ALONG 5")) - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12	
Purchase Order No 35181	Part Number YOUR ITEM NUMBER: D6101-005	Ordered Qty 20.00 PCS	Invoice Qty 20.00 PCS	
Details ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS				
Delivery No. 120849034	Mill KAISER ALUMINUM	Heat Number  168640B11	Mech Id PCS 10	Shipped Qty(LBS) 106.6560

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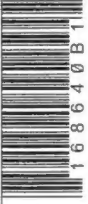


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Page 2 of 2

120849034	KAISER ALUMINUM	 1 6 8 6 4 0 B 1	10			106.6560
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We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

Date:

Name:

SHIPPED FEB 15 2017



M. Randu

817-02-161

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

Date Printed: 15-FEB-2017 03:24:48 PM

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M7075T73B4.00X4.00 PO / BATCH NO: 35181/136868
 DATE: 17/02/24

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 4
 QUANTITY INSPECTED: 4
 QUANTITY REJECTED: _____

THICKNESS ORDERED: 4.000
 THICKNESS RECEIVED: 3.990
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/>	N	
CORROSION	Y	<input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/>	N	
CORRECT MATERIAL	<input checked="" type="radio"/>	N	<u>7075T73</u>
CORRECT THICKNESS	<input checked="" type="radio"/>	N	<u>3.990</u>
PHOTO REQUIRED	Y	<input checked="" type="radio"/>	
CORRECT MATERIAL	<input checked="" type="radio"/>	N	<u>AMS-DD-A-250/12</u>
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/>	N	<u>HEAT# 186802B5</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/>	N	<u>M7075T73B4.00X4.00</u>
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/>	N	<u>M136868</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 14</u>	SIGNED OFF BY: _____		
DATE: <u>17/02/24</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35181

Purchase Order Date 2/2/2017

PO Print Date 2/2/2017

Page Number 1 of 2

Order From :
METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W OE9
CANADA

VU-MET002

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FEB 02 2017
E-MAILED

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

Destination-Collect

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M7075T73B4.000x4.000	7075-T73 Bar 4.0 x 4.0 grain direction along 4" wide	2/21/2017	Yes 2/21/2017	4.00 f	\$134.75	\$539.00

MATERIAL: 7075-T73/T73510T73511 BAR AS PER AMS-QQ-A-200/11 OR AMS-QQ-A-225/9 OR AMS 4124 OR AMS-QQ-A-250/12 OR AMS 4078

NOTE: GRAIN DIRECTION MUST RUN ALONG 4" WIDE

Line Total:						\$539.00	
2	D6101-005P	7075-T7351 8.25X5.0X2.5	2/21/2017	Yes 2/21/2017	20.00 Each	\$36.20	\$724.00

AS PER DWG. D6101 REV.B

B156114

SIZE: 5.00" X 8.250" X 2.50" THICK

GRAIN DIRECTION ALONG 5.00" LENGHT

MATERIAL: 7075-T7351 QQ-A-250/12

TOLERANCE AS PER QUOTE +.030"/-.000"

2017-02-16

Line Total: \$724.00

Note:

2/2/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35181**

Purchase Order Date 2/2/2017

PO Print Date 2/2/2017

Page Number 2 of 2

Order From :
METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W OE9
CANADA

VU-MET002

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

Destination-Collect

3	71401-45	PROCUREMENT QUALITY CLAUSES	✓	2/21/2017	1.00	✓	\$0.00	\$0.00
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No

2/21/2017

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A017 RAW MATERIAL IDENTIFICATION (AS
APPLICABLE)

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

SP17-02-16

Line Total: \$0.00

PO Total: \$1,263.00

U

CL

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 2/2/2017